

Datasheet for ABIN349711
anti-CD8 alpha antibody (PE)

3 Images

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Overview

Quantity:	0.1 mg
Target:	CD8 alpha (CD8A)
Reactivity:	Mouse
Host:	Rat
Clonality:	Monoclonal
Conjugate:	This CD8 alpha antibody is conjugated to PE
Application:	Flow Cytometry (FACS)

Product Details

Immunogen:	Murine spleen cells
Clone:	53-6-7
Isotype:	IgG2a kappa
Specificity:	The rat monoclonal antibody 53-6.7 recognizes an extracellular epitope of murine CD8a (32-34 kDa, alpha chain of the CD8 antigen).
Cross-Reactivity (Details):	Mouse
Purification:	Purified antibody is conjugated with R-phycoerythrin (PE) under optimum conditions. Unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.

Target Details

Target:	CD8 alpha (CD8A)
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Target Details

Alternative Name:	CD8a (CD8A Products)
Background:	<p>CD8a molecule, The CD8a (CD8 alpha) subunit of CD8 T cell coreceptor is expressed in CD8 alpha/beta heterodimers on majority of MHC I-restricted conventional T cells and thymocytes and in CD8 alpha/alpha homodimers on subsets of memory T cells, intraepithelial lymphocytes, NK cells, macrophages and dendritic cells. Regulation of CD8 beta level on T cell surface seems to be an important mechanism to control their effector function. Assembly of CD8 alpha/beta but not alpha/alpha dimers is connected with formation or localization to the lipid rafts. Recruiting triggered TCR complexes to these membrane microdomains as well as affinity of TCR to MHC I is modulated by CD8, thereby affecting the functional diversity of the TCR signaling. Ly-2, Ly-B, Ly-35, Lyt-2, BB154331</p>
Gene ID:	12525
UniProt:	P01731
Pathways:	TCR Signaling

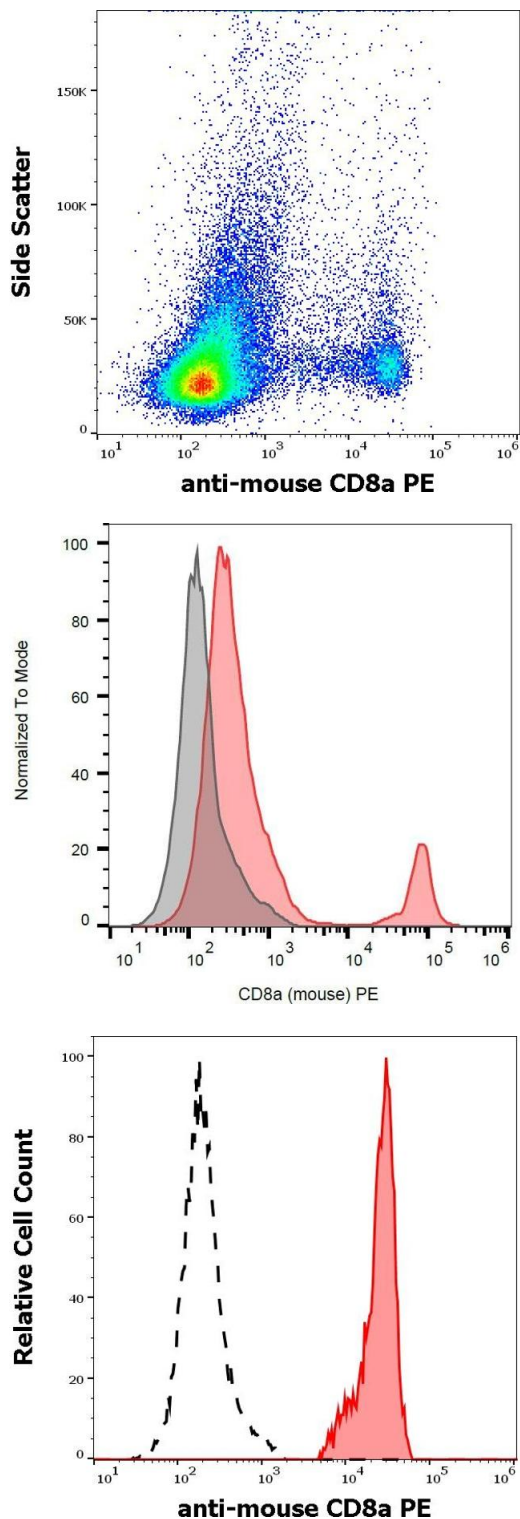
Application Details

Application Notes:	Flow cytometry: Recommended dilution: 2 µg/mL.
Comment:	The purified antibody is conjugated with R-Phycoerythrin (PE) under optimum conditions. The conjugate is purified by size-exclusion chromatography.
Restrictions:	For Research Use only

Handling

Concentration:	0.5 mg/mL
Buffer:	Phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Do not freeze. Avoid prolonged exposure to light.
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Protect from prolonged exposure to light. Do not freeze.

- Product cited in:
- Mochimaru, Usui, Yaguchi, Nagahama, Hasegawa, Usui, Shimmura, Tsubota, Amano, Kawakami, Ishida: "Suppression of alkali burn-induced corneal neovascularization by dendritic cell vaccination targeting VEGF receptor 2." in: **Investigative ophthalmology & visual science**, Vol. 49, Issue 5, pp. 2172-7, (2008) ([PubMed](#)).
- Bouwer, Alberti-Segui, Montfort, Berkowitz, Higgins: "Directed antigen delivery as a vaccine strategy for an intracellular bacterial pathogen." in: **Proceedings of the National Academy of Sciences of the United States of America**, Vol. 103, Issue 13, pp. 5102-7, (2006) ([PubMed](#)).
- Kamimura, Sawa, Sato, Agung, Hirano, Murakami: "IL-2 in vivo activities and antitumor efficacy enhanced by an anti-IL-2 mAb." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 177, Issue 1, pp. 306-14, (2006) ([PubMed](#)).
- Hata, Sakaguchi, Yoshitomi, Iwakura, Sekikawa, Azuma, Kanai, Moriizumi, Nomura, Nakamura, Sakaguchi: "Distinct contribution of IL-6, TNF-alpha, IL-1, and IL-10 to T cell-mediated spontaneous autoimmune arthritis in mice." in: **The Journal of clinical investigation**, Vol. 114, Issue 4, pp. 582-8, (2004) ([PubMed](#)).
- Grabbe, Varga, Beissert, Steinert, Pendl, Seeliger, Bloch, Peters, Schwarz, Sunderkötter, Scharffetter-Kochanek: "Beta2 integrins are required for skin homing of primed T cells but not for priming naive T cells." in: **The Journal of clinical investigation**, Vol. 109, Issue 2, pp. 183-92, (2002) ([PubMed](#)).
- There are more publications referencing this product on: [Product page](#)



Flow Cytometry

Image 1. Flow cytometry surface staining pattern of murine splenocyte suspension stained using anti-mouse CD8a (53-6.7) PE (concentration in sample 1,67 µg/mL).

Flow Cytometry

Image 2. Surface staining of murine splenocytes with anti-CD8a (53-6.7) PE.

Flow Cytometry

Image 3. Separation of murine CD8a positive cells (red-filled) from murine CD8a negative cells (black-dashed) in flow cytometry analysis (surface staining) of murine splenocyte suspension stained using anti-mouse CD8a (53-6.7) PE (concentration in sample 1,67 µg/mL).